

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/001543

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01K G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | CHAUDHURI TANDRA R ET AL: "Blood-based screening and light based imaging for the early detection and monitoring of ovarian cancer xenografts." TECHNOLOGY IN CANCER RESEARCH & TREATMENT. APR 2003, vol. 2, no. 2, April 2003 (2003-04), pages 171-180, XP009035268 ISSN: 1533-0346<br>page 172, right-hand column, paragraph 2 -<br>page 173, left-hand column, paragraph 3<br>page 174, right-hand column, paragraph 2 -<br>page 176, left-hand column, paragraph 2<br>page 178, left-hand column, lines 33,34 | 1-29,<br>34-36        |
| Y          | -----<br>-/--  | 30-33                 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

18 August 2004

Date of mailing of the international search report

30/08/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | CHAUDHURI TANDRA R ET AL: "Light-based imaging of green fluorescent protein-positive ovarian cancer xenografts during therapy"<br>GYNECOLOGIC ONCOLOGY,<br>vol. 82, no. 3, September 2001 (2001-09),<br>pages 581-589, XP002292461<br>ISSN: 0090-8258<br>page 582, left-hand column, paragraph 2 -<br>page 583, right-hand column, paragraph 2<br>page 587, right-hand column, paragraph 2<br>page 588, left-hand column, lines 4-13<br>page 588, right-hand column, last paragraph | 1-30,<br>32-36        |
| Y          | -----   | 30-33                 |
| X          | YANG HONGHAO ET AL: "MicroPET imaging of prostate cancer in LNCAP-SR39TK-GFP mouse xenografts."<br>PROSTATE,<br>vol. 55, no. 1, 1 April 2003 (2003-04-01),<br>pages 39-47, XP009035277<br>ISSN: 0270-4137<br>page 40, right-hand column, last paragraph<br>- page 41, left-hand column, paragraph 2   | 1-30,<br>32-36        |
| Y          | page 41, right-hand column, paragraph 3<br>page 42, left-hand column, paragraph 1<br>page 46, right-hand column, paragraph 2  | 30-33                 |
| Y          | HERMEKING H ET AL: "14-3-3 sigma is a p53-regulated inhibitor of G2/M progression"<br>MOLECULAR CELL, CELL PRESS, CAMBRIDGE, MA, US,<br>vol. 1, December 1997 (1997-12), pages 3-11, XP002107211<br>ISSN: 1097-2765<br>page 3, right-hand column, lines 19-21; figure 8   | 30-33                 |
| Y          | CHAN TIMOTHY A ET AL: "14-3-3sigma is required to prevent mitotic catastrophe after DNA damage"<br>NATURE (LONDON),<br>vol. 401, no. 6753,<br>7 October 1999 (1999-10-07), pages 616-620, XP002292498<br>ISSN: 0028-0836<br>figure 5<br>-----<br>-/--   | 30-33                 |

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| Y          | <p>COLE LAURENCE A: "Immunoassay of human chorionic gonadotropin, its free subunits, and metabolites"<br/>           CLINICAL CHEMISTRY,<br/>           vol. 43, no. 12, December 1997 (1997-12),<br/>           pages 2233-2243, XP002292499<br/>           ISSN: 0009-9147<br/>           page 2241, right-hand column, line 11 -<br/>           page 2242, left-hand column, line 5;<br/>           figure 1; table 2</p> | 30-33                 |
| A          | <p>US 6 107 540 A (KLEIN KAREN A ET AL)<br/>           22 August 2000 (2000-08-22)</p>   |                       |

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 1-27 and 34 are directed to a diagnostic method practised on the animal body, the search has been carried out and based on the alleged effects of the product.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
- a. type of material
- ☒ a sequence listing
- ☐ table(s) related to the sequence listing
- b. format of material
- ☒ in written format
- ☒ in computer readable form
- c. time of filing/furnishing
- ☒ contained in the international application as filed
- ☐ filed together with the international application in computer readable form
- ☒ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|---|---|---------------------|----------------------------|---------------------|
| US 6107540                                | A | 22-08-2000          | US 2002083478 A1           | 27-06-2002          |
|   |   |                     | US 2002108135 A1           | 08-08-2002          |
|   |   |                     | US 2002138861 A1           | 26-09-2002          |
|   |   |                     | US 2002133833 A1           | 19-09-2002          |
|   |   |                     | US 2002129390 A1           | 12-09-2002          |
|   |   |                     | US 2002144301 A1           | 03-10-2002          |
|   |   |                     | US 6365797 B1              | 02-04-2002          |
|   |   |                     | AU 4818997 A               | 11-05-1998          |
|   |   |                     | CA 2271234 A1              | 23-04-1998          |
|   |   |                     | EP 0953039 A1              | 03-11-1999          |
|   |   |                     | JP 2001502537 T            | 27-02-2001          |
|   |   |                     | WO 9816628 A1              | 23-04-1998          |